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David M. McClendon*, Mathematics Department, 820 Campus Drive, ASC 2021, Big Rapids, MI 49307, and **Aimee S.A. Johnson**, 50 College Avenue, Swarthmore, PA 19081. *Speedup equivalence of ergodic \mathbb{Z}^d -actions.*

In 1985 Arnoux, Ornstein and Weiss proved that given any two ergodic measure-preserving transformations, there is a speedup of one which is isomorphic to the other. Recently, Babichev, Burton and Fieldsteel gave a relative version of this result and used their result to give a complete classification of finite extensions of ergodic transformations up to “speedup equivalence”. In this talk, we define an appropriate notion of “speedup” for measure-preserving actions of \mathbb{Z}^d and discuss results analogous to those described above for actions of \mathbb{Z}^d . (Received September 03, 2013)